AVL2

-root : AVLNODE*

- Insert (Word*8, AVLNODE*8): void

-make Empty (AVLNODE*8): void

- print (ostream&, AVLNODE*) const: void

returnWord (string &, AVLNODE"):Word *

+AVL2()

+ AVL2 (const AVL2 &)

+~AVL2()

+ get Root (): AVLNOCE *

+ height (为AVLNODE*&): Int

+ msert (Word *&): void

+ is Empty () const: bool

+make Empty (): void

+ return Word (string &): Word*

* rotate With Left Child (AVLNODE*8): void

* rotate With Right Child (AVLNODE # 8): void

+ double With Left Child (AVLNOTE # 8): void

+ double With Right (hild (AVLNODE*8): void

+ print (ostream &) const : void

+ search For (string &, AVLNODE*): bool

AVLNODE

struct

element: Word*

height : int

MHINE

left: AVLNODE*

right: AVLNODE*

AVLNODE (Word*, AVLNODE*, AVLNODE*,

int

~ AVLNODE ()

AVLTREE

- class AVLNode

- root : AVL Node*

- Insert (T, AVLNode"): void

- insert2 (T, AVLNode"): void

- print4 (ostream &, AVLNode*): void

- print 3 (ostream &, AVLNoder): void

print 2 (ostream &, AVLNode"): void

- print (ostream &, AVLNoder): void

-return Object (int &, AVINOde 2): T8

+ AVLTree ()

+find (const T &, AVLNode+): T&

+ return Object (int &): T&

+ mak height (AVLNode"): int

+ insert (const T&): Void

+insert2(const T8): void

+ is Empty () const : bool

+ rotate With Left Child (AVLNode*): void

+ rotate With Right Child (AVLNode*): void

+ double With Left Child (AVLNode + 8): void

+double With Right Child (AYLNode * 8): void

+ print 4 (ostream 8) : void

+print 3 (ostream &): void

+ print2 (ostream &): void

+ print (ostream &): void

+ search (Td, AVLNode"): bool

+~ AVLTree()

+ get Root (): AVLNode*

Document Parser - word AYL: AYL2 - table: HashTable - pages: AVLTree < Page*> + Document Parser () + ~ Document Parser () +getPage AVL(): AVLTree < Page*> +getTable(): HashTable + getWord AVLL): AVLZ + checkFor Word AVL (string 8): bool +check For Word Hash (string 8): bool + get Input AVL(): void + get Input Hash () : void + strip Unicode (string &) : void +struct Invalid Char HashTable - count : int - trees: AVL2* + HashTable () +HashT +~ HashTableO + addWord (Word #) : void + getRoot (string) : AVLNODE + hashkey (const char*): unsigned + printTrees (ostream 8): void + return Word (string 8): Word* + search For (string 8%, AVLNODE"): bool + search Trees (string) : Word" Page -id int - title: string -text: string + Page () + Page (string / int) + Page (string, int, string) +~ Bage () +getId():Int + getTitle (): string + getText(): string +print(ostream): void

Index Handler -aximdex: + Index Handler() + ~Index Handler() + print(): void

(Puery

- tree: AVLZ

- page Index: AVLTree LPage*>

- table: HashTable

- top Page Index: AVLTree < Page*>

- search Words: vector < string>

+ Overy()

+ ~ Overy()

+ tould Index(): void

+ start Overy(): void

+ frequency Sort (vector cint>8, vector Lint>8): void

+ quick Sort (vector Lint>8, vector Lint>

+ qAND (vector Lint>, vector Lint>): vector (int>

+ qAND (vector Lint>, vector Lint>): vector (int>

+ qANOT (vector Lint>), vector Lint>): vector (int>)

Word

-word: string
-pageId: int
-numofPages: int
-pages: AUTree(int)
- mfo: map (int, int)
- vPages vector (int)
+addPages(int pageId): void
+ addTo Map (int 8, int 8): void
+ getInfo(): map (int, int)
+ getNumPages() Const: int
+ getPages(): vector (int)
+ getPageId() const: int
+ getPageId() const: string
+increase Frequency (int 8): void
+ lookForPage (int 8): bool
+ Word()
+ Word(string 8)
+ ~Word()

StopWord

- stword Array : vector < string?
- +StopWord()
- +~ StopWord()
- + create Array(): void
- + 15 Stop Ward 1 to dot
- + 15 StopWord (const string 8): bool

User Interface

- input : string
- + User Interface ()
- + ~Uter Interface()
- + start Program (): void
- + clear Index(): void